

# Converting Colors

$Y_{xy}(16.3163, 0.2123, 0.1143)$

Have a look what the booklet for  
Yxy(16.3163, 0.2123, 0.1143)  
contains.

<b>Yxy(16.3190, 0.2120, 0.1143)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(16.3190, 0.2120, 0.1143)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8941FF
RGB	137, 65, 255
RGB Percent	54%, 25%, 100%
CMY	0.4625, 0.7453, 0.0000
CMYK	0.46, 0.75, 0.00, 0.00
HSL	263°, 100%, 63%
HSV	263°, 75%, 100%
XYZ	30.2680, 16.3190, 96.1864
YIQ	108.1880, -18.0780, 74.3540

# Conversions

## Conversions Part 2

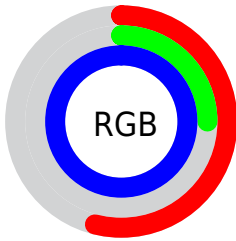
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	137, 65, 255
Decimal	8995327
CIE <sub>Lab</sub>	47.39, 68.21, -82.61
CIE <sub>LCh</sub>	47, 107.130, 309.546
Yxy	16.3190, 0.2120, 0.1143
Android (android.graphics.Color)	4287185407 (0xFF8941FF)
YUV	108.1880, 72.3783, 25.2681
Hunter-Lab	40.3968, 63.0497, -112.8942

# Details

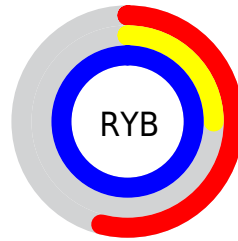
The Yxy color **16.3190, 0.2120, 0.1143** is a light color, and the websafe version is hex **9933FF**. The color can be described as light washed purple. A complement of this color would be **81.9526, 0.3603, 0.5253**, and the grayscale version is **14.8442, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.7951, 0.2692, 0.1827**, and **5.4089, 0.1787, 0.0758** is the 20% darker color. If you saturate the color by 10%, you get **12.7826, 0.1976, 0.0946**, and if you desaturate by 10%, it is **21.3682, 0.2277, 0.1395**.

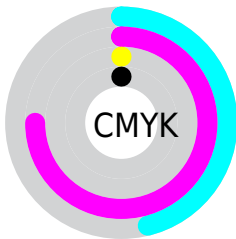
# Distribution



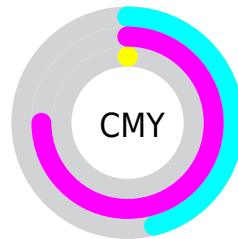
- Red (54%)
- Green (25%)
- Blue (100%)



- Red (54%)
- Yellow (25%)
- Blue (100%)



- Cyan (46%)
- Magenta (75%)
- Yellow (0%)
- Black (0%)




- Cyan (46%)
- Magenta (75%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.3190, 0.2120, 0.1143 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 16.3190, 0.2120, 0.1143 by changing the saturation by 10% instead.





 16.3190, 0.2120,  
0.1143


 16.3190, 0.2120,  
0.1143


231.2168, 0.2694,  
0.2111


 9.7502, 0.1971,  
0.0952


 37.1511, 0.2336,  
0.1460


 5.2336, 0.1781,  
0.0737


 52.1832, 0.2416,  
0.1589

 2.3850, 0.1540,  
0.0506


 70.8052, 0.2482,  
0.1704

 0.8181, 0.1233,  
0.0275

 93.4014, 0.2538,  
0.1805

 0.0000, 0.0863,  
0.0000

 120.3562, 0.2586,  
0.1894

 0.0000, 0.0347,  
0.0000

152.0542, 0.2627,

 0.0000, 0.0000,

0.1975

0.0000

188.8796, 0.2663,  
0.2046

■ 16.3190, 0.2120,  
0.1143

■ 16.3190, 0.2120,  
0.1143

■ 12.7826, 0.1976,  
0.0946

■ 21.3682, 0.2277,  
0.1395

■ 10.5612, 0.1852,  
0.0812

■ 28.0999, 0.2437,  
0.1687

■ 9.7488, 0.1794,  
0.0762

■ 36.6560, 0.2592,  
0.1999

■ 47.1638, 0.2738,  
0.2315

■ 59.7389, 0.2870,  
0.2622

74.4876, 0.2986,  
0.2912

91.5091, 0.3086,  
0.3178

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



16.3190, 0.1101, 0.0959



16.3190, 0.2120, 0.1143



16.3190, 0.4007, 0.1649

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



16.3190, 0.2120, 0.1143



16.3190, 0.5828, 0.4172



16.3190, 0.0748, 0.3413

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



16.3190, 0.2120, 0.1143



81.9526, 0.3603, 0.5253

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



16.3190, 0.1553, 0.6451



16.3190, 0.2120, 0.1143



16.3190, 0.4372, 0.5628

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



16.3190, 0.2120, 0.1143



16.3190, 0.6650, 0.3167



16.3190, 0.2865, 0.7135



16.3190, 0.0539, 0.1670



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



16.3190, 0.2120, 0.1143



16.3190, 0.5481, 0.2137



16.3190, 0.2865, 0.7135



16.3190, 0.0938, 0.4391

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



16.3176, 0.2120, 0.1143



63.2661, 0.2900, 0.2698



43.1699, 0.2071, 0.2375



12.7347, 0.2867, 0.2617



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



16.3176, 0.2120, 0.1143



11.6421, 0.1918, 0.0878



27.7602, 0.2957, 0.1565



17.7136, 0.3038, 0.3048



5.1727, 0.1810, 0.0771



0.5639, 0.1935, 0.0839



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



28.4472, 0.4048, 0.2229



24.9527, 0.4301, 0.2199



74.0887, 0.3099, 0.5605



18.1766, 0.3197, 0.3144



12.4328, 0.4461, 0.2231

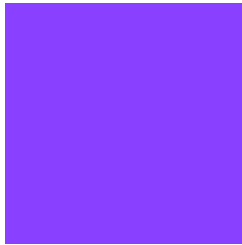


1.2318, 0.4279, 0.2131



# Previews

## White Background



This preview shows how the Yxy color 16.3190, 0.2120, 0.1143 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

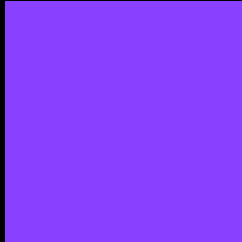
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 16.3190, 0.2120, 0.1143 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

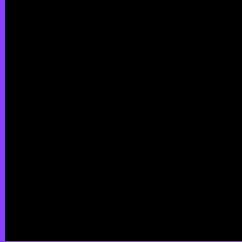
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 16.3190, 0.2120, 0.1143**

## **Background**



This preview shows how black text looks on a background with the Yxy color 16.3190, 0.2120, 0.1143.



This preview shows how white text looks on a background with the Yxy color 16.3190, 0.2120, 0.1143.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

16.3190, 0.2120, 0.1143

### Protanopia

16.3266, 0.1741, 0.1468

### Deuteranopia

16.2927, 0.1850, 0.1860



## Tritanopia

16.0990, 0.2896, 0.3106

# Trichromacy



## Original Color

16.3190, 0.2120, 0.1143



## Protanomaly

14.5054, 0.1748, 0.1233



## Deuteranomaly

14.2895, 0.1813, 0.1420



## Tritanomaly

14.9129, 0.2523, 0.2033

# Monochromacy



## Original Color

16.3190, 0.2120, 0.1143



## Achromatopsia

14.9960, 0.3127, 0.3290



## Achromatomaly

14.1494, 0.2646, 0.2095

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.3190, 0.2120, 0.1143 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(137, 65, 255)` looks like.

```
.text, #text, p{  
  color:rgb(137, 65, 255)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(137, 65, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 65, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 16.3190, 0.2120, 0.1143 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(137, 65, 255) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(137, 65, 255) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(137, 65, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 65, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 65, 255);  
box-shadow:4px 4px 4px 4px rgb(137, 65,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 16.3190, 0.2120, 0.1143 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 65, 255) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(137, 65,  
255) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor